



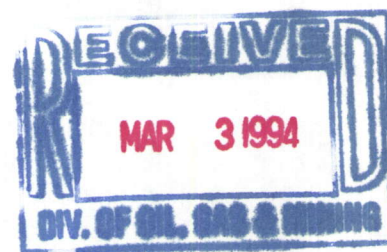
# State of Utah

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

M/635/015

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February 28, 1994

Mr. Robert E. Dunne  
Project Manager  
Kennecott Utah Copper  
P.O. Box 525  
Bingham Canyon, Utah 84006-0525

RE: Request for Additional Information;  
Ground Water Discharge Permit  
Application for Kennecott Tailings  
Impoundment; Ground Water Discharge  
Permit No. UGW350011

Dear Mr. Dunne:

Thank you for the opportunity to meet with you and other Kennecott staff on February 25, 1994. The information provided in the meeting will be helpful in completing the review of the materials submitted by Kennecott in support of the ground water discharge permit application for the existing Tailings Impoundment and the proposed expansion area.

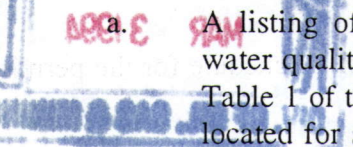
As a follow-up to our discussion, would you provide the following items to complete the information needed to proceed with the compiling of a draft permit.

1. Volume 1 of the Geotechnical Detailed Design contains Sections 3 and 4, dealing with seismic and geotechnical design information. Based on our meeting, I will remove these sections and anticipate updated versions to be supplied by Kennecott.
2. A copy of the boring log, for DH-WC-500, is needed.
3. In attempting to characterize tailings water quality and assess associated surface water quality (such as Utah Pollution Discharge Elimination System (UPDES) data), the following information is needed:

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- a. A listing of surface water sampling locations and descriptions for the surface water quality data adjacent to the Tailings Impoundment. (The data is present in Table 1 of the Great Salt Lake Area Baseline Report, but no description could be located for surface water stations)
- b. The individual station locations and data sets for the average values given in Tables 5-2 and 5-3, of the November 1993 permit application, is needed to better understand spatial and temporal variability of water quality of tailings waters. This should include completion information for the wells completed in the tailings material, such that the elevations of the well screens are given.
4. A copy is needed of Volume X, of the Geotechnical Detailed Design Report, which contains the geologic cross sections of the Tailings pond investigation.
5. Based on the discussion in our meeting, the survey information for the surface water features, that cross the expansion area, is nearing completion. This report will provide information on the Bonneville Clay and the degree to which it is incised by the surface drainages. A copy of this work is needed.

Following receipt and review of this information, I will begin to formulate the draft permit. While it is possible that additional information may be needed to compile the draft permit, it is anticipated that the following schedule for the permit can be achieved:

Review of remaining items to be received from Kennecott	<b>March 30, 1994</b>
Permit draft compiled for review by Kennecott	<b>April 29, 1994</b>
Comments from Kennecott on Draft Permit Received	<b>May 31, 1994</b>
Draft permit finalized for Public Comment	<b>June 30, 1994</b>
Public Comment Period complete on Draft Permit	<b>July 30, 1994</b>
Final Permit Signed and Issued (assumes no substantive changes to the permit are needed based on public comment)	<b>August 31, 1994</b>

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If you have any questions on the information requested, or the tentative schedule for the permit, please do not hesitate to contact me.

Sincerely,



John Whitehead, Ground Water Hydrologist  
Ground Water Protection Section

JW:wfm

cc: Terry Sadler, Salt Lake County Health  
Wayne Hedberg, Division of Oil, Gas and Mining  
Brent Everett, DERR

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